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L1: Entry 1 of 1

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Jun 16, 1993

DERWENT-ACC-NO: 1993-215789

DERWENT-WEEK: 199618

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TITLE: Synthesis of silico-alumino titanate isomorphous to zeolite beta - by mixing hydrolysed titanium di:oxide in aq. tetra:ethyl:ammonium, silica and e.g. alumina, heating obt'd. gel in autoclave and calcining silico-alumino-titanate

PATENT-ASSIGNEE:

ASSIGNEE

UNIV VALENCIA POLITECNICA

CODE

UYVAN

PRIORITY-DATA: 1991ES-0001798 (July 31, 1991)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|----------------------|-------------------|----------|-------|------------|
| <u>ES 2037596 A1</u> | June 16, 1993 | | 000 | B01J021/06 |
| <u>ES 2037596 B1</u> | February 16, 1994 | | 000 | B01J021/06 |

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|---------------|----------------|------------|
| ES 2037596A1 | July 31, 1991 | 1991ES-0001798 | |
| ES 2037596B1 | July 31, 1991 | 1991ES-0001798 | |

INT-CL (IPC): B01J 21/06; C07B 33/00

ABSTRACTED-PUB-NO: ES 2037596A

BASIC-ABSTRACT:

Synthesis of silicoaluminotitanate isomorphous to zeolite beta comprises hydrolysing a source of TiO₂ with aq. tetraethylammonium, diluting with water and the prod. soln. hydrolyses the reactive source of Y (e.g. silica). The mixt. obt'd. is treated with a soln. contg. a source of X₂O₃ (Al₂O₃ or (NO₃)₃Al) and is autoclaved at 80-120 deg.C.

USE/ADVANTAGE - The prod. is isomorphous to zeolite beta and is activated by calcination at 350-800 deg.C. It can be used for selective oxidn. of organic cpds., esp. for converting alkanes or cycloalkanes to alcohols and ketones, phenol to catechol and hydroquinone and alkenes to epoxides.

TITLE-TERMS: SYNTHESIS SILICO ALUMINO TITANATE ISOMORPHOUS ZEOLITE BETA MIX HYDROLYSIS TITANIUM DI OXIDE AQUEOUS TETRA ETHYL AMMONIUM SILICA ALUMINA HEAT OBTAIN GEL AUTOCLAVE CALCINE SILICO ALUMINO TITANATE

ADDL-INDEXING-TERMS:

SELECTIVE OXIDN. OF ORGANIC CPDS.

DERWENT-CLASS: E19 E32 J04

CPI-CODES: E31-P02A; J04-E04;

SECONDARY-ACC-NO:

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Synthesis of silico-alumino titanate isomorphous to zeolite beta - by mixing hydrolysed titanium dioxide in aq. tetraethylammonium, silica and e.g. alumina, heating obtd. gel in autoclave and calcining silico-alumino-titanate

Patent Assignee: UNIV VALENCIA POLITECNICA

Patent Family

| Patent Number | Kind | Date | Application Number | Kind | Date | Week | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| ES 2037596 | A1 | 19930616 | ES 911798 | A | 19910731 | 199327 | B |
| ES 2037596 | B1 | 19940216 | ES 911798 | A | 19910731 | 199411 | |

Priority Applications (Number Kind Date): ES 911798 A (19910731)

Patent Details

| Patent | Kind | Language | Page | Main IPC | Filing Notes |
|------------|------|----------|------|-------------|--------------|
| ES 2037596 | A1 | | | B01J-021/06 | |
| ES 2037596 | B1 | | | B01J-021/06 | |

Abstract:

ES 2037596 A

Synthesis of silicoaluminotitanate isomorphous to zeolite beta comprises hydrolysing a source of TiO₂ with aq. tetraethylammonium, diluting with water and the prod. soln. hydrolyses the reactive source of Y (e.g. silica). The mixt. obtd. is treated with a soln. contg. a source of X₂O₃(Al₂O₃ or (NO₃)₃AL) and is autoclaved at 80-120 deg.C.

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Derwent World Patents Index

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